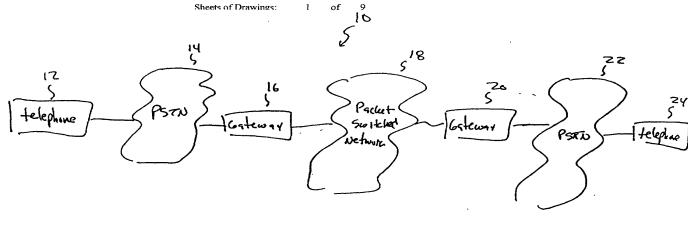
Docket No.: RIC98014P1

Appln No.: Not assigned

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals

William Christopher Hardy Inventors:



Docket No.: RIC98014P1 Appln No.: Not assigned Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals Inventors: William Christopher Hardy OBJECTIVE MEASUREMENTS Sheets of Drawings: PWR NSE DIST EPL 212 EPD NON-PAIRET-SWITINES DATA 214 ~210 IMPAINMENTS LV NS 216 EC EFFECTS MAMIX 50 LV NS ECSD PLUD MOS XN 260 DA TA D157 PLR 224 222 TRANSFORMED SAT DATA CONVOLVE F14.2. AUG. MOS + P(UDI) AT GIVEN PACKET LOSS AME RIC98014P1 PACKET PALKET DELAY TO (composite MOS + RUDI) 1-250

Docket No.: RIC980T4P1 Appln No.. Not assigned

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals

Inventors:

William Christopher Hardy

Sheets of Drawings: 3



Fig. 3a



Fig. 36

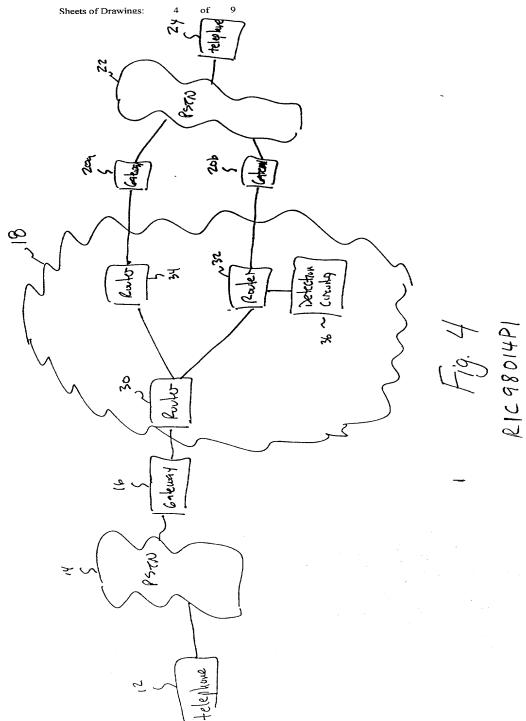


Fig. 3c

Appln No.: Not assigned Docket No.: RIC98014P1

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals

Inventors: William Christopher Hardy

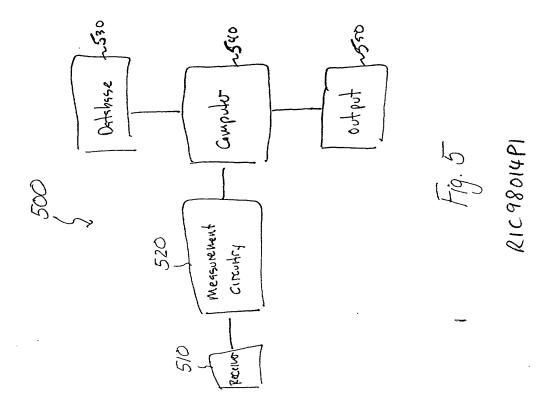


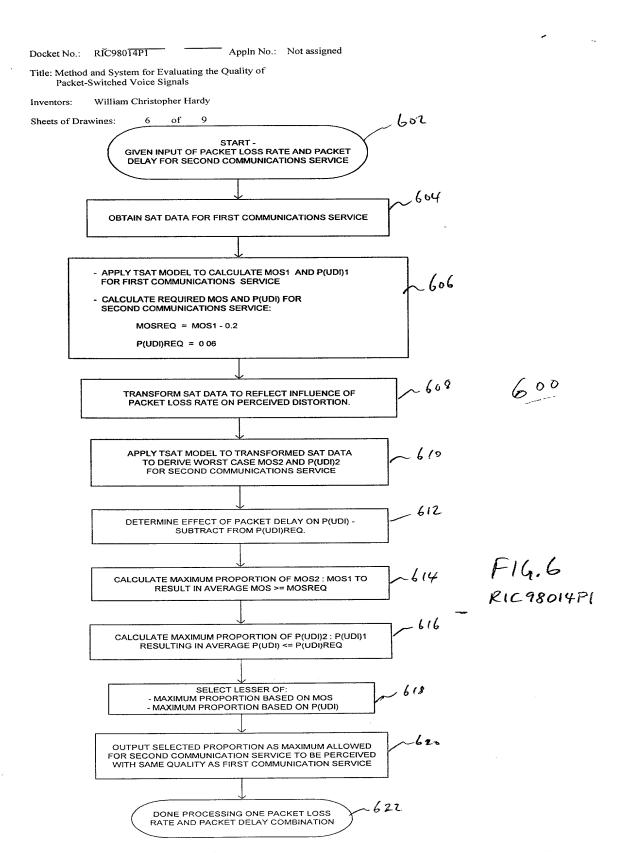
Docket No.: RIC98014P1 Appln No.: Not assigned

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals

Inventors: William Christopher Hardy

Sheets of Drawings: of





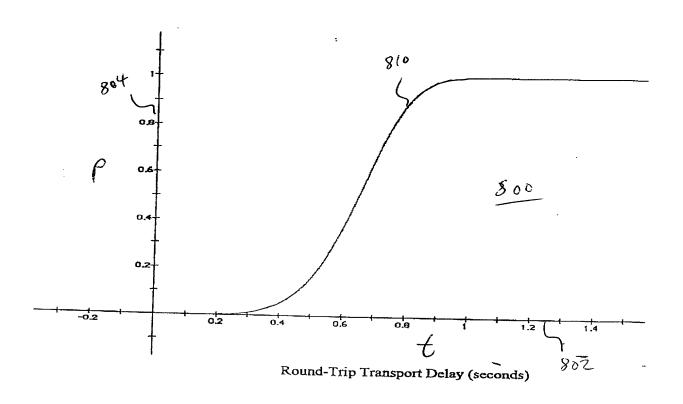
Docket No.: RĬC980Ĭ4PI Appln No.: Not assigned Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals Inventors: William Christopher Hardy 202 Sheets of Drawings: of _ 9___ START -**GIVEN PACKET LOSS** RATE AS INPUT **OBTAIN SAT DATA** 706 SELECT SET OF THREE QUADRAGRAMS WHEREIN SPEECH DISTORTION VARIES WHILE REMAINING CHARACTERISTICS HAVE A FIXED PATTERN. 8ه ۲ر FROM SAT DATA, LOOK UP PROPORTIONS FOR EACH OF THE SELECTED QUADRAGRAMS AS SPEECH DISTORTION VARIES NONE-SOME-MUCH (Cn,Cs,Cm) 710 FROM TABLE OF PERCEIVED SPEECH DISTORTION AS A FUNCTION OF PACKET LOSS RATES, LOOK UP RELATIVE PROPORTIONS OF NONE-SOME-MUCH (Pn,Ps,Pm) FOR THE **GIVEN PACKET LOSS RATE** ALTER OCCURRENCE FREQUENCIES FOR EACH OF -712 THE SELECTED QUADRAGRAMS AS FOLLOWS: Cn' = Cn - Cn(Ps + Pm)Cs' = Cs + (Cn)(Ps) - Cs(0.5Ps + Pm)Cm' = Cm + (Cn)(Pm) + Cs(0.5Ps + Pm)ALL QUADRAGRAMS F14.7 PROCESSED? RIC9801471 **OUTPUT SAT DATA AS TRANSFORMED** FOR GIVEN PACKET LOSS RATE -718 DONE

an and the second

Docket No.: RIC98014P1 Appln No.: Not assigned

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals

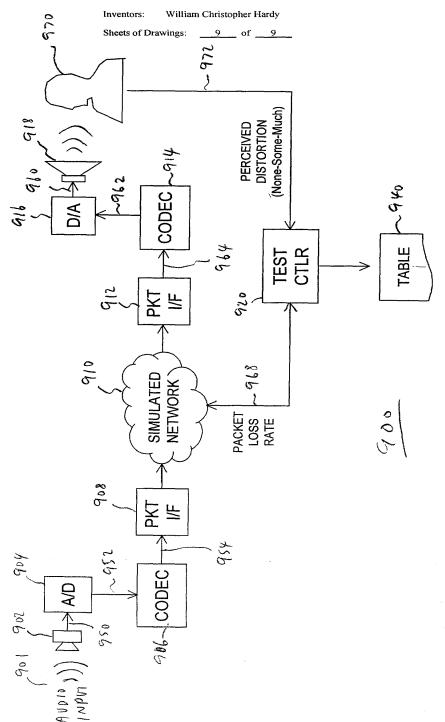
William Christopher Hardy Inventors: Sheets of Drawings: of <u>9</u>



F1G.8 RIC98014P1

Docket No: RIC98014P1 Appln No. Not assigned

Title: Method and System for Evaluating the Quality of Packet-Switched Voice Signals



7.18.9.